

**Notice of Allowability**

Application No.

09/839,910

Examiner

Insun Kang

Applicant(s)

ROBISON, ARCH

Art Unit

2193

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1.  This communication is responsive to 8/29/2005 <sup>the Terminal Disclaimer</sup>
2.  The allowed claim(s) is/are 1,3-8,10-15 and 17-21.
3.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All b)  Some\* c)  None of the:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).  
\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4.  A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5.  CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.  
(a)  including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached  
1)  hereto or 2)  to Paper No./Mail Date \_\_\_\_\_.  
(b)  including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date 11/21/2005.  
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6.  DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1.  Notice of References Cited (PTO-892)
2.  Notice of Draftsperson's Patent Drawing Review (PTO-948)
3.  Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 8/29/2005
4.  Examiner's Comment Regarding Requirement for Deposit of Biological Material
5.  Notice of Informal Patent Application (PTO-152)
6.  Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_
7.  Examiner's Amendment/Comment
8.  Examiner's Statement of Reasons for Allowance
9.  Other \_\_\_\_\_

### EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mark Van Ness (Reg. 39,865) on 11/21/2005.

The application has been amended as follows:

**Per claim 1:**

Line 1: before "method," –computer-implemented—has been added.

**Per claim 3 (renumbered as 2):**

Line 1: before "method," –computer-implemented—has been added.

**Per claim 4 (renumbered as 3):**

Line 1: before "method," –computer-implemented—has been added.

**Per claim 5 (renumbered as 4):**

Line 1: before "method," –computer-implemented—has been added.

**Per claim 6 (renumbered as 5):**

Line 1: before "method," –computer-implemented—has been added.

**Per claim 7 (renumbered as 6):**

Line 1: before "method," –computer-implemented—has been added.

These amendments were necessary in order to further clarify the claims and obviate any rejection under 35 U.S.C. 101.

2. The following changes to the drawings have been approved by the examiner and agreed upon by applicant: 1) Fig. 1 has been designated by --Prior Art--. 2) Per Fig. 3, in the box 304, "ficed" has been changed to --fixed-. 3) Per Fig. 4A, "Funjction" has been changed to --Function--. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

***Examiner's Statement of Reason(s) for Allowance***

3. Claims 1, 3-8, 10-15, and 17-21 (renumbered 1-18) are allowed.
4. The following is an examiner's statement of reason s for allowance:

The closest prior arts of record, i.e. Cheng, Archambault, taken alone or in combination, fail to teach or fairly suggest at least: splitting the global solution into local solutions for the local side effect lattice problems as recited in independent claims 1, 8, and 15.

While Cheng, Archambault do disclose an element of a lattice domain such as the merge function that is the lattice meet operation for the greatest lower bound, ultimately Cheng, Archambault do not disclose: splitting the global solution into local solutions for the local side effect lattice problems.

Art Unit: 2193

5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Insun Kang whose telephone number is 571-272-3724. The examiner can normally be reached on M-F 7:30-4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on 571-272-3719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

I. Kang  
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**KAKALI CHAKI**  
**SUPERVISORY PATENT EXAMINER**  
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